

350 kpsi or greater. The plastic composite material may be filled with viscoelastic damping particles, anisotropic reinforcing agents, or combinations thereof.

IN THE CLAIMS

Please rewrite claims 1-3, 5, 7-9, 14, 16-17 and 19. Please cancel claims 4, 6, 10, 18 and 20.

- Sub B1
1. A substrate for use in a data storage system, comprising:
at least one plastic composite material exhibiting a modulus of about 350 kpsi or greater;
wherein said plastic composite material is filled with viscoelastic damping particles, anisotropic reinforcing agents, or combinations thereof.
 2. The substrate of claim 1 wherein said plastic composite material exhibits a modulus in the range of about 400 to 3,000 kpsi.
 3. The substrate of claim 1 wherein said plastic composite material comprises polysulfone (PSU), polyethersulfone (PES), polyetherimide (PEI), polyphenylsulfide (PPS), polyphthalamide (PPA), liquid crystal polymer (LCP), polyetheretherketone (PEEK), polycarbonate (PCB) and any combinations thereof.
 - Sub B2
5. The substrate of claim 1 wherein said anisotropic reinforcing agents are selected from carbon fibers, glass fibers, mineral particles and any combinations thereof.
 - Sub D2
7. The substrate of claim 1 wherein the viscoelastic damping particles, anisotropic reinforcing agents, or combination thereof in the plastic composite material have a concentration in the range of about 5 to 65 weight %.

8. The substrate of claim 1 where said at least one plastic composite material comprises two or more layers of said material and any combination thereof.

9. The substrate of claim 1 further comprising:
said plastic composite material forming a core layer; and
said plastic composite material forming one or more skin layers formed atop said core layer.

14. A substrate for use in a data storage system, comprising:
at least one core layer made of a plastic or plastic composite material; and
at least one skin layer made of a plastic or plastic composite material, and formed atop at least one surface of said core layer, wherein at least one of said core or skin layers exhibit a modulus of 350 kpsi or greater, and wherein the plastic or plastic composite material is filled with viscoelastic damping particles, anisotropic reinforcing agents, or combinations thereof.

16. The substrate of claim 14 wherein the [visco]elastic damping particles, anisotropic reinforcing agents, or combination thereof in the plastic or plastic composite material have a concentration in the range of about 5 to 65 weight %.

17. The substrate of claim 16 wherein said anisotropic reinforcing agent is selected from carbon fibers, glass fibers, mineral particles and any combinations thereof.

19. An apparatus, comprising:
a disk drive spindle motor; and
at least one data storage disk mounted on said disk drive spindle wherein said storage disk comprises at least one plastic composite material